

Activity B:**The Sun and tides**Get the Gizmo Ready:

- Click **Reset** (↺).
- Make sure **Show tidal bands** is on.



Question: How does the Sun affect tides?

1. **Observe:** Click **Fast forward**. Observe the shape of the tidal bands. How does the shape change as the simulation plays?

Due to the moon's orbit, it pulls in various places.

2. **Gather data:** Click **Reset**. Use the Gizmo to fill in the table, recording one high and one low tide each day. Calculate the **range**, the difference between high and low tide, for each day.

Day	Depth at high tide	Depth at low tide	Range (high tide – low tide)
0	5.9m	2.9m	3m
1	5.8m	3.0m	2.8m
2	5.7m	3.1m	2.6m
3	5.6m	3.2m	2.4m
4	5.4m	3.4m	2m
5	5.3m	3.5m	1.8m
6	5.2m	3.6m	1.6m

3. **Investigate:** Tides with the largest range from high tide to low tide are called **spring tides**. Click **Reset** to observe the positions of the Sun, Earth and Moon during a spring tide. Then **Fast forward** to another spring tide. (Look for the label in the upper right corner.)

What do you notice about the positions of the Sun, Moon and Earth during spring tides?

The Earth, Sun, and Moon are all in a straight line.

4. **Investigate:** Tides with the smallest range from high tide to low tide are called **neap tides**. Click **Fast forward**, and use the label to help find two periods of neap tides.

What do you notice about the positions of the Sun, Moon, and Earth during neap tides?

The Moon is either above or below the Earth while the Sun and Earth are in a straight line.

5. **Conclude:** How does the Sun affect tides?

It possesses a weak gravitational pull that is exacerbated by the tides, but it is not as strong as the Moon's pull.

Gizmo Tides Key

Michael Christopher Costello

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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